



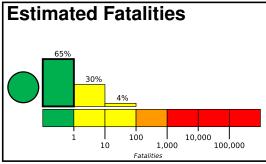


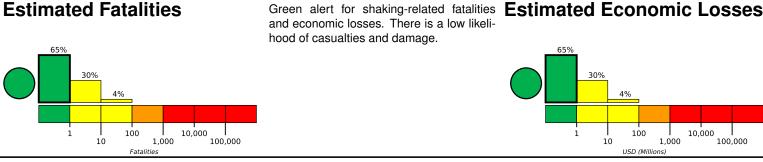
PAGER Version 6

Created: 1 week, 5 days after earthquake

M 5.5, 78 km W of Vallenar, Chile

Origin Time: 2021-12-14 04:23:55 UTC (Tue 01:23:55 local) Location: 28.6861° S 71.5555° W Depth: 17.8 km





Estimated Population Exposed to Earthquake Shaking

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ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	780k	19k	1k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

population per 1 sq. km from Landscan

Population Exposure

28.2°S

29.4°S

0 72.8°W 71.5°W 70.2°W 1 Copiapo

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

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Date	Dist.	Mag.	Max	Shaking	
(UTC)	(km)		MMI(#)	Deaths	
1983-10-04	260	7.6	VII(30k)	5	
1975-03-13	137	6.9	VIII(266k)	2	
1997-10-15	248	7.1	VIII(3k)	7	

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org MMI City **Population** Vallenar 45k Ш **Vallenar** <1kШ Vicuna 13k Ш La Serena 155k Ш Coquimbo 161k Ш Copiapo 129k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us6000gc3k#pager

Event ID: us6000gc3k

^{*}Estimated exposure only includes population within the map area.